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# RF Drivers
## - Variable Frequency Drivers -




Laboratory Version

## Instruction for Variable Frequency RF Drivers

Brimrose offers a large verity of RF Drivers compatible with our Acousto-Optic components. The following instructions will help you choose and pick the proper variable frequency driver for your application. If there are any questions please contact Brimrose Corporation of America.

## Variable Frequency Driver Guide:

| V | F | | - | | | | | - | | | | - | | | | - | | - | | - | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Application**

**A**-Modulator
**B**-Deflector
**C**-Combination Modulator
**D**-Dual or multiple frequency
**E**-Multiple channel unit
**F**-Optical frequency Shifter
**G**-Custom driver
**H**-Q-switch
**I**-Tunable filter

**Center Frequency**

10MHz-1700MHz
X= customer specified

**Frequency Range**

10MHz-1700MHz
X= customer specified

**Frequency Control**

SPS-Serial Port Synthesizer
VCO-Voltage Control Oscillator

**Modulation**

A-CW
B1-Analog amplitude
B2-Digital amplitude
C1-Analog frequency
C2-Digital Frequency
D- Dual fixed frequency
S-Single sideband
*-Any of the above features may be combined.

**RF Power**

Fo-Fixed optimized to cell's performance
Vo-Variable optimized to cell's performance
Fn-Fixed, 'n' watts nominal
Vn-Variable, from 0.1 'n' to 'n' watts

**Options**

DC-Custom supplied DC 'n' voltage
B-BNC connectors in place of SMAs
E-200-250VAC 50-400Hz
M-O.E.M. or customer specified enclosure or outline

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# Variable Frequency Driver Specifications

| Driver Model # | VFB-XX-YY-V-A-F2 | VFE-XX-YY-V-B1-F2/2Ch |
|---|---|---|
| **Frequency Range** | Corresponding to the AO Device Requirements | Matching the 2-D AOD controlled by application of external tuning voltage |
| **Tuning Voltage** | 0 - 10 V analog (-2 to +20 VDC no damage) | |
| **Frequency Stability** | 1% nominal after 15 minute warm-up, constant temperature | |
| **Scanning Speed** | 50 micro sec from min to max frequency with step change in tuning voltage | |
| **Output Power** | Power is optimized for peak efficiency with supplied AO device. | |
| **Modulation Type** | Analog Amplitude or TTL Compatible (optional) DC-50 MHz | |
| **Modulation Input** | 50 Ω; 0-1 V or 330 Ω; 0-5 V | |
| **Operating Power** | 90-240 VAC ±25% 50-60 Hz | |
| **Enclosure** | The unit will be packaged in a 190 mm (7.5 inch) wide by 100 mm (4 inch) high by 220 mm (8.75 inch) deep instrument case. The rear panel heat sink increases the depth to 240 mm (9.75 inches) maximum. The size is exclusive of connectors. A detachable AC line cord and RF cable are provided. | |
| **Environmental** | Nominal Laboratory Conditions: The maximum temperature is +35° C. The unit is not sealed against moisture or condensing humidity. | |

In addition to the standard product shown above, customer configurations are available for specialized applications.

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